CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2017-18 03.11.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Providing drinking water works in Ward No.13, Dasarahalli Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/93/2017-18 Dated: 05.06.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	03.11.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	515	556	13.25	O.K	O.K

*Information is furnished by the Customer/Representative.

Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Civil-tech Consultants & Engineers
#23/14, 7th Cross, 3rd Stage, 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

AE-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಪತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Providing drinking water works in Ward No.13, Dasarahalli Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/93/2017-18 Dated: 05.06.2017
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	03.11.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	518	559	13.45	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-10/477b/CC Solid Block/2017-18 07.11.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Providing drinking water works in Ward No.13, Dasarahalli Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/93/2017-18 Dated: 05.06.2017
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	03.11.2017
Date of Testing	:	07.11.2017

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	36.32	287.3	3.59	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	35.64	288.6	3.61	
3	Block 3	35.26	285.4	3.57	
4	Block 4	36.64	286.3	3.58	
5	Block 5	35.58	285.9	3.57	
6	Block 6	36.69	286.2	3.58	
7	Block 7	35.42	282.5	3.53	
8	Block 8	36.31	283.9	3.55	

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AE-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

VIDYARANI P.K.
Technical Manager

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-10/477b/Cube/2017-18 13.12.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Providing drinking water works in Ward No.13, Dasarahalli Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/93/2017-18 Dated: 05.06.2017
* Sample ID	:	RCC Roof Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.12.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.11.2017	13.12.2017	8.126	493.5	21.93
2	15.11.2017	13.12.2017	8.236	505.2	22.45
3	15.11.2017	13.12.2017	8.368	534.2	23.74

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VIDYARANI P.K.
Technical Manager

AE-13

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